

ABSTRACT

The invention relates to creep-resistant iron-nickel alloys with a low thermal expansion coefficient that contain (in weight %) 0.008 to 0.12 C, 0.05 to 0.30 % Mn, 0.05 to 0.30 % Si, 0.2 to 0.9 % Mo, 0.1 to 0.3 % Cr, 0.03 to 0.15 % Nb, a maximum content of 0.5 % Co as well as a content of 36.0 to 36.5 % Ni, and a balance of iron and production-related impurities. The alloys have a thermal expansion coefficient of less than 2.0×10^{-6} /K in the temperature range of 20 to 100 $^{\circ}\text{C}$.